QC ABSTRACT

NAME OF WORK: "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package No:09)."

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	9 set /251-300 cum	262.56	18	18

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-04-10-14** **Date: 04-01-21**
Project Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No.03 and 04 of Yelahanka Division (Package No:09)."
Agency	:	Sri K Venkata Raju, No 23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
Date of Receipt	:	01-01-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-01-21
Environmental Coaditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.53	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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GEO TECHNICAL | PROJECT MANAGEMENT |

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2021-04-10-14** **Date: 30-01-21**

Project Name : "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package No:09)."

Agency : Sri.K.Venkata Raju, No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094

Customer's Reference : BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21

Date of Receipt : 01-01-21

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 02-01-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-04-10-14** **Date: 04-01-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.42	–
6	Water Absorption(%)	0.26	–

* The results obtained are satisfactory as per standard requirements

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2021-04-10-14 Date: 04-01-21
Project Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package No:09)."
Agency	:	Sri.K.Venkata Raju, No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094
Customer Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
Date of Receipt	:	01-01-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-01-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-04-10-14 Date: 04-01-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report*

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ಯಲಹಂಕ ಉಪವಿಭಾಗ ಉಪವಿಭಾಗಾಧಿಕಾರಿಗಳ ಕಚೇರಿ
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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-04-10-14

Date: 04-01-21

Project Name : "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package No:09)."

Agency : Sri.K.Venkata Raju, No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094

Customer's Reference : BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21

Date of Receipt : 01-01-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 01-01-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-04-10-14** **Date: 04-01-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID : CP-2021-04-10-14

Date: 23-01-21

Project Name : "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package No:09)."

Agency : Sri.K.Venkata Raju, No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094

Customer's Reference : BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21

Date of Receipt : 22-01-21

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 22-01-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

ı ID	:	CP-2021-04-10-14 **Date: 01-04-21**
ject Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No.03 and 04 of Yelahanka Division (Package No.09)."
ıcy	:	Sri.K.Venkata Raju, No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094
tomer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
e of Receipt	:	28-03-21
ple Type /Size	:	Precast Cover Slab (250mm)
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
e of test	:	28/03/2021

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	200.51	250.51	3.116	31570	230.2	7.3	6.8	8.5
Cover Slab-2	200.49	250.53	3.122	31564	230.6	7.3	6.8	8.5
Cover Slab-3	200.48	250.50	3.118	31561	230.8	7.3	6.8	8.5

results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-04-10-14 **Date: 06/02/2021**

Project Name : "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package No:09)."

Agency : Sri.K.Venkata Raju, No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094

Customer's Reference : BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21

Date of Receipt : 01-02-21

Customer ID : Drain Bottom Slab Concrete, (19th B cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	30/01/2021	06/02/2021	149.34 X 150.87 X 151.38	22532	8.709	409.6	18.2	18.6
2	Drain Bottom Slab Concrete	M20	30/01/2021	06/02/2021	151.96 X 151.90 X 150.92	23083	8.908	430.5	18.6	
3	Drain Bottom Slab Concrete	M20	30/01/2021	06/02/2021	151.76 X 151.01 X 151.14	22918	8.983	431.6	18.8	

The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2021-04-10-14 **Date: 27/02/2021**
ject Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package No:09)."
ncy	:	Sri.K.Venkata Raju, No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094
stomer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
te of Receipt	:	01-02-21
stamer ID	:	Drain Bottom Slab Concrete, (19th B cross Road)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	27/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	30/01/2021	27/02/2021	150.69 X 149.08 X 151.39	22465	8.911	519.3	23.1	23.2
2	Drain Bottom Slab Concrete	M20	30/01/2021	27/02/2021	149.80 X 151.12 X 149.81	22639	8.387	511.7	22.6	
3	Drain Bottom Slab Concrete	M20	30/01/2021	27/02/2021	150.55 X 151.55 X 151.69	22816	8.762	545.4	23.9	

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

****End of Report****

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HIGHWAY & BUILDING MATERIALS

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-04-10-14

Date: 27/02/2021

Project Name : "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package No:09)."

Agency : Sri.K.Venkata Raju, No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094

Customer's Reference : BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21

Date of Receipt : 01-02-21

Customer ID : Drain Bottom Slab Concrete, (19th B cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	30/01/2021	27/02/2021	151.00 X 149.96 X 149.32	22644	8.911	522.5	23.1	23.2
2	Drain Bottom Slab Concrete	M20	30/01/2021	27/02/2021	151.96 X 150.36 X 149.36	22849	8.387	514.7	22.5	
3	Drain Bottom Slab Concrete	M20	30/01/2021	27/02/2021	150.13 X 149.62 X 149.91	22464	8.762	536.8	23.9	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/03/2021

ple ID	:	CP-2021-04-10-14
Project Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package No:09)."
gency	:	Sri.K.Venkata Raju, No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094
stomer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
ate of Receipt	:	22-02-21
stomer ID	:	Drain Side Wall Concrete, (19th B cross Road)
ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M20 / 28 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ate of test	:	20/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/02/2021	20/03/2021	151.06 X 149.54 X 151.99	22589	8.911	539.2	23.9	23.4
2	Drain Side Wall Concrete	M20	20/02/2021	20/03/2021	151.36 X 149.07 X 151.97	22565	8.387	518.6	23.0	
3	Drain Side Wall Concrete	M20	20/02/2021	20/03/2021	149.44 X 150.76 X 151.54	22529	8.762	529.3	23.5	

The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 27/02/2021

	:	CP-2021-04-10-14
Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package No:09)."
	:	Sri.K.Venkata Raju, No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094
mer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
of Receipt	:	22-02-21
mer ID	:	Drain Side Wall Concrete, (19th B cross Road)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	27/02/2021

Sl. No	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/02/2021	27/02/2021	149.71 X 149.35 X 151.17	22358	8.709	415.2	18.6	18.4
2	Drain Side Wall Concrete	M20	20/02/2021	27/02/2021	151.18 X 151.11 X 151.02	22844	8.908	415.0	18.2	
3	Drain Side Wall Concrete	M20	20/02/2021	27/02/2021	150.06 X 150.34 X 149.84	22560	8.983	417.7	18.5	

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No. CP/TF/01

Date: 27/02/2021

ID	:	CP-2021-04-10-14
st Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package No:09)."
ss	:	Sri.K.Venkata Raju, No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094
mer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
of Receipt	:	22-02-21
mer ID	:	Drain Side Wall Concrete, (19th B cross Road)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	27/02/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Drain Side Wall Concrete	M20	20/02/2021	27/02/2021	151.79 X 150.67 X 149.46	22870	8.709	433.7	19.0	18.5
Drain Side Wall Concrete	M20	20/02/2021	27/02/2021	149.16 X 149.84 X 150.32	22350	8.908	408.6	18.3	
Drain Side Wall Concrete	M20	20/02/2021	27/02/2021	150.25 X 150.70 X 149.15	22643	8.983	412.3	18.2	

e results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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Quality Manager

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Certificate No.: TC-5

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 20/03/2021

Lab ID	:	CP-2021-04-10-14
Project Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package No:09)."
Address	:	Sri.K.Venkata Raju, No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
Date of Receipt	:	22-02-21
Customer ID	:	Drain Side Wall Concrete. (19th B cross Road)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/02/2021	20/03/2021	151.28 X 150.87 X 149.07	22825	8.911	532.7	23.3	23.1
2	Drain Side Wall Concrete	M20	20/02/2021	20/03/2021	150.64 X 149.83 X 151.23	22571	8.387	514.0	22.8	
3	Drain Side Wall Concrete	M20	20/02/2021	20/03/2021	150.13 X 151.25 X 151.78	22708	8.762	523.3	23.0	

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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Quality Manager

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Certificate No.: TC

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/

Date: 15/02/2021

Job ID	:	CP-2021-04-10-14
Project Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package No:09)."
Agency	:	Sri.K.Venkata Raju, No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
Date of Receipt	:	10-02-21
Customer ID	:	Culvert Bottom Slab Concrete, (19th B cross Road)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Culvert Bottom Slab Concrete	M20	08/02/2021	15/02/2021	150.98 X 149.90 X 150.19	22631	8.709	410.2	18.1	18.4
2	Culvert Bottom Slab Concrete	M20	08/02/2021	15/02/2021	149.06 X 151.89 X 151.92	22641	8.908	411.7	18.2	
3	Culvert Bottom Slab Concrete	M20	08/02/2021	15/02/2021	149.83 X 150.06 X 149.75	22484	8.983	422.2	18.8	

The results obtained are satisfactory as per standard requirements.

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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-04-10-14 **Date: 25/02/2021**

Project Name : "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package No:09)."

Agency : Sri.K.Venkata Raju, No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094

Customer's Reference : BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21

Date of Receipt : 20-02-21

Customer ID : Culvert Side Wall Concrete, (19th B cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	18/02/2021	25/02/2021	151.26 X 150.06 X 151.25	22698	8.709	431.2	19.0	18.5
2	Culvert Side Wall Concrete	M20	18/02/2021	25/02/2021	149.10 X 151.97 X 151.31	22658	8.908	411.8	18.2	
3	Culvert Side Wall Concrete	M20	18/02/2021	25/02/2021	149.21 X 150.20 X 150.64	22411	8.983	411.9	18.4	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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****End of Report****